APPENDIX 8.13E

Phase II Environmental Site Assessment for the Proposed Walnut Energy Center



1420 Harbor Bay Parkway Suite 120 Alameda. CA 94502-7098 (510) 748-6700 www.ensr.com

October 29, 2002 ENSR Project No. 08727103-100

Mr. Randy C. Baysinger, P.E. Assistant General Manager Turlock Irrigation District P.O Box 949 Turlock, CA 95381

Subject:

Limited Soil Sampling Results

69-Acre Parcel

600 South Washington Road

Turlock, California

Dear Mr. Baysinger:

ENSR_® Corporation (ENSR) is pleased to provide the Turlock Irrigation District (TID) with this report documenting the results of our limited soil sampling for the 69-acre parcel of land located at 600 South Washington Road in Turlock, California. The work was performed in accordance with ENSR's proposal dated July 23, 2002. The objective of the limited soil sampling was to assess the presence, if any, of residual pesticides and metals.

LIMITED SOIL SAMPLING

On October 18, 2002, ENSR collected 20 discrete soil samples (1 sample per 3.5 acres) across the subject site (**Figure 1**). The soil samples were collected by pushing the brass sample tubes into the soil. Soil samples were collected in pre-cleaned 2-inch by 6-inch brass liners. All sample containers were sealed and delivered under chain-of-custody documentation to McCampbell Analytical Inc. (DHS Certification No. 1644) of Pacheco, California.

The laboratory combined the twenty surface samples into five composite samples (five 4-point composites). At each location, soi samples were collected from approximately 0.5 feet to 1.0 feet below ground surface. The five composite surface soil samples were analyzed for the following constituents:

- Organochlorine Pesticides by Environmental Protection Agency (EPA) Method 8081B; and
- California Assessment Manu il (CAM) 17 Metals by EPA Method 6000/7000 series.



Mr. Randy Baysinger October 29, 2002 Page 2

LABORATORY ANALYTICAL RESULTS

The laboratory analytical results for the composite surface soil samples are presented in **Table 1** and summarized below:

- Organochlorine pesticides were not detected in any soil samples;
- Barium was detected in all five amples at concentrations ranging from 41 to 50 milligrams per kilogram (mg/kg);
- Chromium was detected in all fire samples at concentrations ranging from 5.9 to 7.7 mg/kg;
- Cobalt was detected in all five samples at concentrations ranging from 2.8 to 3.5 mg/kg;
- Copper was detected in all five samples at concentrations ranging from 8.0 to 9.0 mg/kg;
- Lead was detected in four samples at concentrations ranging from 3.3 to 4.8 mg/kg;
- Nickel was detected in four samples at concentrations ranging from 3.1 to 4.3 mg/kg;
- Vanadium was detected in all "ive samples at concentrations ranging from 19 to 22 mg/kg;
 and
- Zinc was detected in all five sar iples at concentrations ranging from 27 to 31 mg/kg.

A copy of the laboratory analytical report is included as **Attachment A**.

CONCLUSIONS/RECOMMENDATIONS

Based on laboratory analytical results, the subject site has not been significantly impacted by past agricultural practices. Several metals, including barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc, were detected at various concentrations throughout the subject site. However, these concentrations are well below their respective USEPA Region 9 Preliminary Remediation Goals (PRG) for industrial soil and therefore, further assessment and/or remediation does not appear to be warranted.



Mr. Randy Baysinger October 29, 2002 Page 3

LIMITATIONS

The interpretations and/or conclusions contained within this report represent our professional opinions. These opinions are based on currently available information and were developed in accordance with currently accepted geologic, hydrogeologic, and engineering practices at this time and for this specific site. No warranty is implied or intended.

ENSR appreciates the opportunity to provide the Turlock Irrigation District with environmental consulting services. If you have questions regarding this report, please feel free to contact Mark Litzau at (510) 748-6700.

Sincerely,

ENSR Corporation

Watter Down

Alan Churchill

Project Geologist

Mark C. Litzau

Senior Program Manager

l C. Titzan

Attachment A:

Laboratory Analytical Report

TABLE 1 SOIL ANALYTICAL RESULTS 69-Acre Parcel 600 South Washington Road Turlock, California

NOTES:

ND - Not Detected At or Above Laboratory Detection Limits

mg/kg - milligrams per kilogram ug/kg - micrograms per kilogram PRGs - Preliminary Remediation Goals (USEPA Region 9) for industrial soil.